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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/659,187	09/10/2003	Klaus Schroder	156P034	5607
40621	7590 11/01/2006		. EXAM	INER
PASTEL LAW FIRM			ROSE, KIESHA L	
CHRISTOPHI	ER R. PASTEL NF.		ART UNIT	PAPER NUMBER
ITHACA, NY 14850-9267			2822	
			DATE MAILED: 11/01/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/659,187	SCHRODER, KLAUS				
Office Action Summary	Examiner	Art Unit				
	Kiesha L. Rose	2822				
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL! - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. If NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, it any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a re- tion. y period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	CATION. Sply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	n <u>17 August 2006</u> .					
2a)⊠ This action is FINAL . 2b)[This action is FINAL . 2b) This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice u	nder <i>Ex par</i> te <i>Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the appli 4a) Of the above claim(s) is/are w 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-13</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction	ithdrawn from consideration.					
Application Papers						
9) The specification is objected to by the Exton 10) The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	accepted or b) objected to be to the drawing(s) be held in abeyan correction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for f a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	uments have been received. uments have been received in Ap ne priority documents have been Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO/SB/08)	948) Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application				
Paper No(s)/Mail Date	6) 🗌 Other:	<u>_</u> ·				

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DETAILED ACTION

This Office Action is in response to the amendment filed 17 August 2006.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishida (U.S. Patent 5,584,941).

In re claims 1 and 10, Nishida discloses a solar cell (Fig. 2) that contains a substrate (201), an electrically conducting film (202) deposited on substrate, wherein the film is a metallic alloy other than Cr-alloy when substrate is Si, wherein a junction of film and substrate forms a plane, wherein the current flow within the film is substantially parallel to the plane, wherein substrate consists essentially of a substrate material (Si) which forms a metasable bond with film and wherein deposition is in at least a high vacuum environment. (Column 2, lines 65-67)

In re claim 2, the substrate material is a non-metallic element (Si). (Column 3, line 41)

In re claims 4 and 7, the film material is NiO. (Column 5, lines 53-56)

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In re claim 5, an overlayer (203) on the conducting film, wherein the overlayer is Si. (Column 3, line 43)

In re claims, 3 and 6, the film material is Ag, when formed on a steel (Fe composition) substrate. (Column 6, lines 19-21)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida.

In re claims 8-9, Nishida discloses all the limitations except for the thickness of the substrate and the film. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the desired thickness of the substrate and the film, since it has been held that where the general condition of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. (1955)

Response to Arguments

Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on T-F 8:30-6:00 off Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Trinin Primary Examiner

10/30/06

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